

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ \_\_\_\_\_

# PCT

## CHAPTER II

### DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

For International Preliminary Examining Authority use only	
Identification of IPEA	Date of receipt of DEMAND
<b>Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION</b> Applicant's or agent's file reference 11307P5 WO/JMH	
International application No. PCT/GB2004/003658	International filing date (day/month/year) 26 August 2004 (Earliest) Priority date (day/month/year) 29 August 2003
Title of invention COCKROACH CRAYON	
<b>Box No. II APPLICANT(S)</b>	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Reckitt Benckiser (Australia) Pty Limited 44 Wharf Road West Ryde NSW 2114 AUSTRALIA	
Telephone No. +61 29857 2000 Facsimile No. +61 29858 5721 Teleprinter No. Applicant's registration No. with the Office	
State (that is, country) of nationality: AU	State (that is, country) of residence: AU
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) CRAVEN, Daniel Jeremy Reckitt Benckiser (Australia) Pty Limited 44 Wharf Road West Ryde NSW 2114 AUSTRALIA	
State (that is, country) of nationality: AU	State (that is, country) of residence: AU
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) SCRIVENER, Andrew Martin Reckitt Benckiser (Australia) Pty Limited 44 Wharf Road West Ryde NSW 2114 AUSTRALIA	
State (that is, country) of nationality: AU	State (that is, country) of residence: AU
<input checked="" type="checkbox"/> Further applicants are indicated on a continuation sheet.	

## Continuation of Box No. II APPLICANT(S)

If none of the following sub-boxes is used, this sheet should not be included in the demand.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

SMITH, Graeme Bruce  
Reckitt Benckiser (Australia) Pty Limited  
44 Wharf Road  
West Ryde  
NSW 2114  
AUSTRALIA

State (that is, country) of nationality:  
AU

State (that is, country) of residence:  
AU

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Reckitt Benckiser (UK) Limited  
103-105 Bath Road  
Slough  
Berkshire  
SL1 3UH  
UNITED KINGDOM

State (that is, country) of nationality:  
GB

State (that is, country) of residence:  
GB

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

State (that is, country) of nationality:

State (that is, country) of residence:

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

State (that is, country) of nationality:

State (that is, country) of residence:

☐ Further applicants are indicated on another continuation sheet.

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**The following person is ☒ agent ☐ common representativeand ☐ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☒ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: (Family name followed by given name; for a legal entity, full official designation.  
The address must include postal code and name of country.)

Terry Instone  
 Reckitt Benckiser plc  
 Intellectual Property Department - Patents Group  
 Dansom Lane  
 Hull, HU8 7DS  
 UNITED KINGDOM

Telephone No.

+44 (0)1482 582960

Facsimile No.

+44 (0)1482 216876

Teleprinter No.

Agent's registration No. with the Office

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:\***

1. The applicant wishes the international preliminary examination to start on the basis of:

☐ the international application as originally filedthe description ☒ as originally filed☐ as amended under Article 34the claims ☐ as originally filed☐ as amended under Article 19 (together with any accompanying statement)☒ as amended under Article 34the drawings ☒ as originally filed☐ as amended under Article 342. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of the applicable time limit under Rule 69.1(d).4. ☐ The applicant expressly wishes the international preliminary examination to start earlier than at the expiration of the applicable time limit under Rule 54bis.1(a).

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English

☒ which is the language in which the international application was filed.☐ which is the language of a translation furnished for the purposes of international search.☐ which is the language of publication of the international application.☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.**Box No. V ELECTION OF STATES**

The filing of this demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the PCT.

**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- |  |   |   |        |
|--|---|---|--------|
| 1. translation of international application                              | : |   | sheets |
| 2. amendments under Article 34   | : | 7 | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : |   | sheets |
| 4. copy (or, where required, translation) of statement under Article 19  | : |   | sheets |
| 5. letter  | : | 3 | sheets |
| 6. other ( <i>specify</i> ) Hand amended claims                          | : | 8 | sheets |

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received not received

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| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

The demand is also accompanied by the item(s) marked below:

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 5. <input type="checkbox"/> statement explaining lack of signature                         |
| 2. <input type="checkbox"/> original separate power of attorney                          | 6. <input type="checkbox"/> sequence listing in computer readable form                     |
| 3. <input type="checkbox"/> original general power of attorney                           | 7. <input type="checkbox"/> tables in computer readable form related to a sequence listing |
| 4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 8. <input type="checkbox"/> other ( <i>specify</i> ):                                      |

**Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

- |  |  |
|--|--|
| 3. <input type="checkbox"/> The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.<br><input type="checkbox"/> The applicant has been informed accordingly. | 6. <input type="checkbox"/> The date of receipt of the demand is AFTER the expiration of the time limit under Rule 54bis.1(a) and item 7 or 8, below, does not apply.                        |
| 4. <input type="checkbox"/> The date of receipt of the demand is WITHIN the time limit of 19 months from the priority date as extended by virtue of Rule 80.5.   | 7. <input type="checkbox"/> The date of receipt of the demand is WITHIN the time limit under Rule 54bis.1(a) as extended by virtue of Rule 80.5.   |
| 5. <input type="checkbox"/> Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.   | 8. <input type="checkbox"/> Although the date of receipt of the demand is after the expiration of the time limit under Rule 54bis.1(a), the delay in arrival is EXCUSED pursuant to Rule 82. |

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Demand received from IPEA on:

CLAIMS

1. A solid stick insecticidal composition comprising a base, an insecticide and at least 60 wt% food material, the composition having a penetration hardness of  
5 from 0.1 to 5 mm.
2. An insecticidal composition according to claim 1 comprising at least 65, preferably at least 70 and more preferably at least 75 wt% food material.
- 10 3. An insecticidal composition according to claim 1 or claim 2 comprising up to 99.99 wt% food material.
4. An insecticidal composition according to any preceding claim comprising food material selected from  
15 (i) carbohydrates;  
(ii) protein/carbohydrate containing;  
(iii) fatty or oily materials; and mixtures thereof.
- 20 5. An insecticidal composition according to claim 4, in which the carbohydrates are selected from  
(i) honey;  
(ii) sugars including monosaccharides and disaccharides;  
(iii) polysaccharides and complex carbohydrates including cellulosic materials,  
25 pectin and starches; and mixtures thereof.
6. An insecticidal composition according to claim 4 or claim 5, in which the protein/carbohydrate containing materials are selected from:  
30 (i) cereal products,  
(ii) flour, including soya flour;  
(iii) spices;  
(iv) vegetable products including dehydrated vegetables;  
(v) dried yeast;  
35 (vi) egg powder;

(vii) insect-derived materials including silkworm pupa, eggs and body parts;  
and  
mixtures thereof.

- 5 7. An insecticidal composition according to any one of claims 4 to 6, in which the  
fatty or oily materials are selected from:
- (i) lipids;
  - (ii) essential oils;
  - (iii) fully hydrogenated fatty acids;
  - 10 (iv) vegetable oils;
  - (v) animal-derived fats;
  - (vi) esters;
  - (vii) waxes;
  - (viii) soaps;
  - 15 (ix) phospholipids;
  - (x) glycolipids;
  - (xi) terpenes;
  - (xii) steroids; and  
mixtures thereof.
- 20
8. An insecticidal composition according to any preceding claim comprising at  
least 10, preferably at least 20 and more preferably at least 30 wt% base  
ingredients.
- 25 9. An insecticidal composition according to any preceding claim comprising base  
ingredients selected from fatty alcohols, fatty acids, various esters including  
lower alkyl esters of fatty acids, castor oil, mineral oils, petroleum jellies,  
polyethylene glycols, monoalkanolamides, carnauba wax, candelilla wax,  
amorphous hydrocarbon waxes, petroleum-based waxes including  
30 microcrystalline waxes, beeswax, paraffin waxes, cocoa butter, hydrogenated  
vegetable oils, lanolin, lanolin absorption bases, paraffin oils, lecithin, silicone  
waxes, flour, monoglycerides and animal derived-fats including tallow, lard,  
suet and duck fat.

10. An insecticidal composition according to any preceding claim comprising one or more dual functionality materials acting as both a food material and a base ingredient.
- 5 11. An insecticidal composition according to claim 10, in which the dual functionality material is selected from hydrogenated palm stearine, tallow, lard, suet, duck fat, monoglycerides, flours and lecithins.
12. An insecticidal composition according to any preceding claim in which the base  
10 comprises one or more emulsifying agents.
13. An insecticidal composition according to any preceding claim, in which the insecticide is selected from pyrethroids, neonicotinoids, avermectins, spinosyns, hydramethylnon, fluorinated sulfluoramides, organophosphates, pyrazoles,  
15 chlorfenapyr, indoxacarb, borates, benzoylphenyl ureas, carbamates, hydrazones and mixtures thereof.
14. An insecticidal composition according to claim 13, in which the insecticide comprises an organophosphate.  
20
15. An insecticidal composition according to claim 14, in which the organophosphate is chlorpyrifos.
16. An insecticide according to claim 13, in which the insecticide comprises a  
25 pyrazole.
17. An insecticide according to claim 16, in which the pyrazole is fipronil.
18. An insecticide according to claim 13, in which the insecticide comprises an  
30 indoxacarb.
19. An insecticidal composition according to any preceding claim comprising insecticide in an amount of from 0.01 to 40 wt%, preferably from 0.01 to 20 wt% and more preferably from 0.01 to 10 wt%.

20. An insecticidal composition according to any preceding claim comprising an attractant.
21. An insecticidal composition according to claim 20, in which the food material  
5 also functions as an attractant.
22. An insecticidal composition according to claim 21, in which soya bean oil is a food material and an attractant.
- 10 23. An insecticidal composition according to claim 21 or claim 22, in which honey is a food material and an attractant.
24. An insecticidal composition according to any one of claims 21 to 23, in which malt extract is a food material and an attractant  
15
25. An insecticidal composition according to any one of claims 21 to 24, in which maple lactone is a food material and an attractant.
26. An insecticidal composition according to claim 25, in which maple lactone is  
20 present in an amount of from 0.001 to 1 wt%, preferably from 0.005 to 0.5 wt %.
27. An insecticidal composition according to any one of claims 20 to 26 comprising an attractant which does not function as a food material.  
25
28. An insecticidal composition according to any preceding claim further comprising a preservative.
29. An insecticidal composition according to claim 28, in which the preservative is  
30 present in an amount of from 0.0001 to 10 wt%.
30. An insecticidal composition according to claim 28 or claim 29, in which the preservative is selected from sorbic acid and salts thereof, methylparaben, propylparaben and mixtures thereof.  
35



31. An insecticidal composition according to any preceding claim further comprising an anti-oxidant.
- 5 32. An insecticidal composition according to claim 31, in which the anti-oxidant is present in an amount of from 0.0001 to 10 wt%.
- 10 33. An insecticidal composition according to claim 31 or claim 32, in which the anti-oxidant is selected from TBHQ, butylated hydroxytoluene, butylated hydroxyanisole and mixtures thereof.
34. An insecticidal composition according to any preceding claim further comprising a human taste deterrent
- 15 35. An insecticidal composition according to claim 34, in which the human taste deterrent is present in an amount of from 1 to 200 ppm.
36. An insecticidal composition according to claim 34 or claim 35, in which the human taste deterrent is denatonium benzoate.
- 20 37. An insecticide composition according to any preceding claim further comprising a colorant.
38. An insecticidal composition according to any preceding claim further comprising one or more other components selected from feeding stimulants, and  
25 fillers and animal taste deterrents.
39. An insecticidal composition according to any preceding claim having a penetration hardness of from 0.5 to 5 mm.
- 30 40. An insecticidal composition according to claim 39 having a penetration hardness of from 1 to 5 mm.
41. An insecticidal composition according to any preceding claim 40 having a penetration hardness of from 1 to 4 mm.

42. An insecticidal composition according to any preceding claim having a melting point of at least 20°C, preferably at least 35°C, more preferably at least 40°C and most preferably at least 45°C.
- 5 43. An insecticidal composition according to any preceding claim having a setting point in the range from 20 to 200°C, preferably from 30 to 70°C and more preferably from 45 to 55°C.
- 10 44. A method for controlling insects in which a solid stick insecticidal composition according to any one of claims 1 to 42 is applied and deposited on to a hard surface to be treated.
- 15 45. A method for controlling insects according to claim 44, in which the insecticidal composition is applied as a line of material by drawing the stick along the surface.
46. A method for controlling insects according to claim 44, in which the insecticidal composition is applied as a series of spots on the surface.
- 20 47. A method for controlling insects according to claim 44, in which the insecticidal composition is applied as a smear on the surface.
48. A method for controlling insects according to any one of claims 44 to 47, in which the insects which crawl.
- 25 49. A method for controlling insects according to claim 48, in which the insects are cockroaches.
- 30 50. An insect control product comprising a solid stick insecticidal composition according to any one of claims 1 to 43 and a package.
51. An insect control product according to claim 50 in which the package comprises a protective wrapping.
- 35 52. An insect control product according to claim 51 in which the protective wrapping comprises paper, plastic, fabric, metal foil or laminates.

53. An insect control product according to claim 51 or claim 52, in which the wrapping includes tear lines or points of weakness at intervals along the length of the wrapping thus allowing for progressive removal of circumferential strips of wrapping from the stick.
- 5
54. An insect control product according to claim 50 in which the package comprises an applicator including a bottom, in which is held one end of the stick, and a tubular lid, which partially or fully encloses the insecticidal stick.
- 10 55. An insect control product according to claim 50 in which the package comprises an applicator in which the insecticidal stick is extendable from a casing.
56. An insect control product according to any one of claims 50 to 54 in which the package comprises a label or a label is applied to the package.
- 15
57. Use of an insecticide and a food material in the manufacture a solid stick insecticidal composition according to any one of claims 1 to 43 for application to a hard surface to be treated.

CLAIMS

- 5 1. A solid stick insecticidal composition comprising a base, an insecticide and at least 60 wt% food material, *THE COMPOSITION HAVING A PENETRATION HARDNESS OF FROM 0.1 TO 5 mm.*
- 10 2. An insecticidal composition according to claim 1 comprising at least 65, preferably at least 70 and more preferably at least 75 wt% food material.
3. An insecticidal composition according to claim 1 or claim 2 comprising up to 99.99 wt% food material.
- 15 4. An insecticidal composition according to any preceding claim comprising food material selected from
  - (i) carbohydrates;
  - 20 (ii) protein/carbohydrate containing materials;
  - (iii) fatty or oily materials; and mixtures thereof.
5. An insecticidal composition according to claim 4, in which the carbohydrates are selected from
  - 25 (i) honey;
  - (ii) sugars including monosaccharides and dissaccharides;
  - (iii) polysaccharides and complex carbohydrates including cellulosic materials, pectin and starches; and mixtures thereof.

6. An insecticidal composition according to claim 4 or claim 5, in which the protein/carbohydrate containing materials are selected from:
- 5 (i) cereal products,
  - (ii) flour, including soya flour;
  - (iii) spices;
  - (iv) vegetable products including dehydrated vegetables;
  - (v) dried yeast;
  - 10 (vi) egg powder;
  - (vii) insect-derived materials including silkworm pupa, eggs and body parts; and mixtures thereof.
7. An insecticidal composition according to any one of
- 15 claims 4 to 6, in which the fatty or oily materials are selected from:
  - (i) lipids;
  - (ii) essential oils;
  - (iii) fully hydrogenated fatty acids;
  - 20 (iv) vegetable oils;
  - (v) animal-derived fats;
  - (vi) esters;
  - (vii) waxes;
  - (viii) soaps;
  - 25 (ix) phospholipids;
  - (x) glycolipids;
  - (xi) terpenes;
  - (xii) steroids; and mixtures thereof.
- 30 8. An insecticidal composition according to any preceding claim comprising at least 10, preferably at least 20 and more preferably at least 30 wt% base ingredients.
- 35 9. An insecticidal composition according to any preceding claim comprising base ingredients selected

from fatty alcohols, fatty acids, various esters including lower alkyl esters of fatty acids; castor oil, mineral oils, petroleum jellies, polyethylene glycols, monoalkanolamides, carnauba wax, candelilla wax, amorphous hydrocarbon waxes, petroleum-based waxes including microcrystalline waxes, beeswax, paraffin waxes, cocoa butter, hydrogenated vegetable oils, lanolin, lanolin absorption bases, paraffin oils, lecithin, silicone waxes, flour, monoglycerides and animal derived-fats including tallow, lard, suet and duck fat.

10. An insecticidal composition according to any preceding claim comprising one or more dual functionality materials acting as both a food material and a base ingredient.
11. An insecticidal composition according to claim 10, in which the dual functionality material is selected from hydrogenated palm stearine, tallow, lard, suet, duck fat, monoglycerides, flours and lecithins.
12. An insecticidal composition according to any preceding claim in which the base comprises one or more emulsifying agents.
13. An insecticidal composition according to any preceding claim, in which the insecticide is selected from pyrethroids, neonicotinoids, avermectins, spinosyns, hydramethylnon, fluorinated sulfluoramides, organophosphates, pyrazoles, chlorfenapyr, indoxacarb, borates, benzoylphenyl ureas, carbamates, hydrazones and mixtures thereof.
14. An insecticidal composition according to claim 13, in which the insecticide comprises an organophosphate.

15. An insecticidal composition according to claim 14, in which the organophosphate is chlorpyrifos.
- 5 16. An insecticide according to claim 13, in which the insecticide comprises a pyrazole.
17. An insecticide according to claim 16, in which the pyrazole is fipronil.
- 10 18. An insecticide according to claim 13, in which the insecticide comprises an indoxacarb.
- 15 19. An insecticidal composition according to any preceding claim comprising insecticide in an amount of from 0.01 to 40 wt%, preferably from 0.01 to 20 wt% and more preferably from 0.01 to 10 wt%.
- 20 20. An insecticidal composition according to any preceding claim comprising an attractant.
21. An insecticidal composition according to claim 20, in which the food material also functions as an attractant.
- 25 22. An insecticidal composition according to claim 21, in which soya bean oil is a food material and an attractant.
- 30 23. An insecticidal composition according to claim 21 or claim 22, in which honey is a food material and an attractant.
- 35 24. An insecticidal composition according to any one of claims 21 to 23, in which malt extract is a food material and an attractant

25. An insecticidal composition according to any one of claims 21 to 24, in which maple lactone is a food material and an attractant.
- 5 26. An insecticidal composition according to claim 25, in which maple lactone is present in an amount of from 0.001 to 1 wt%, preferably from 0.005 to 0.5 wt %.
- 10 27. An insecticidal composition according to any one of claims 20 to 26 comprising an attractant which does not function as a food material.
- 15 28. An insecticidal composition according to any preceding claim further comprising a preservative.
- 20 29. An insecticidal composition according to claim 28, in which the preservative is present in an amount of from 0.0001 to 10 wt%.
- 20 30. An insecticidal composition according to claim 28 or claim 29, in which the preservative is selected from sorbic acid and salts thereof, methylparaben, propylparaben and mixtures thereof.
- 25 31. An insecticidal composition according to any preceding claim further comprising an anti-oxidant.
- 30 32. An insecticidal composition according to claim 31, in which the anti-oxidant is present in an amount of from 0.0001 to 10 wt%.
- 35 33. An insecticidal composition according to claim 31 or claim 32, in which the anti-oxidant is selected from TBHQ, butylated hydroxytoluene, butylated hydroxyanisole and mixtures thereof.



34. An insecticidal composition according to any preceding claim further comprising a human taste deterrent

35. An insecticidal composition according to claim 34, in which the human taste deterrent is present in an amount of from 1 to 200 ppm.

36. An insecticidal composition according to claim 34 or claim 35, in which the human taste deterrent is denatonium benzoate.

37. An insecticide composition according to any preceding claim further comprising a colorant.

38. An insecticidal composition according to any preceding claim further comprising one or more other components selected from feeding stimulants, and fillers and animal taste deterrents.

39. An insecticidal composition according to any preceding claim having a penetration hardness of from 0.1 to 10 mm.

40. An insecticidal composition according to any preceding claim having a penetration hardness of from 0.5 to 5 mm.

41. An insecticidal composition according to any preceding claim having a melting point of at least 20 °C; preferably at least 35 °C, more preferably at least 40 °C and most preferably at least 45 °C.

42. An insecticidal composition according to any preceding claim having a setting point in the range

41. AN INSECTICIDAL COMPOSITION ACCORDING TO CLAIM 40 HAVING A PENETRATION HARDNESS OF FROM 1 TO 4 mm.

from 20 to 200°C, preferably from 30 to 70°C and more preferably from 45<sup>to</sup>/~~55~~ °C.

- 44  
43. A method for controlling insects in which a solid stick insecticidal composition according to any one of claims 1 to 42 is applied and deposited on to a hard surface to be treated.
- 45  
44. A method for controlling insects according to claim 43<sup>44</sup> in which the insecticidal composition is applied as a line of material by drawing the stick along the surface.
- 46  
45. A method for controlling insects according to claim 43<sup>44</sup> in which the insecticidal composition is applied as a series of spots on the surface.
- 47  
46. A method for controlling insects according to claim 43<sup>44</sup> in which the insecticidal composition is applied as a smear on the surface.
- 48  
47. A method for controlling insects according to any one of claims 43<sup>44</sup> to 46<sup>47</sup> in which the insects ~~which~~ crawl.
- 49  
48. A method for controlling insects according to claim 47<sup>48</sup> in which the insects are cockroaches.
- 50  
49. An insect control product comprising a solid stick insecticidal composition according to any one of claims 1 to 42<sup>43</sup> and a package.
- 51  
50. An insect control product according to claim 49<sup>50</sup> in which the package comprises a protective wrapping.

- 52  
51. An insect control product according to claim <sup>51</sup>50 in which the protective wrapping comprises paper, plastic, fabric, metal foil or laminates.
- 53  
5 52. An insect control product according to claim <sup>51</sup>50 or claim <sup>52</sup>51, in which the wrapping includes tear lines or points of weakness at intervals along the length of the wrapping thus allowing for progressive removal of circumferential strips of wrapping from the stick.
- 10 54  
53. An insect control product according to claim <sup>56</sup>49 in which the package comprises an applicator including a bottom, in which is held one end of the stick, and a tubular lid, which partially or fully encloses the insecticidal stick.
- 15 55  
54. An insect control product according to claim <sup>56</sup>49 in which the package comprises an applicator in which the insecticidal stick is extendable from a casing.
- 20 56  
55. An insect control product according to any one of claims <sup>56</sup>49 to <sup>54</sup>54 in which the package comprises a label or a label is applied to the package.
- 57  
25 56. Use of an insecticide and a food material in the manufacture a solid stick insecticidal composition according to any one of claims 1 to <sup>43</sup>42 for application to a hard surface to be treated.